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09/920,583	07/31/2001	L. Jeffrey Kapner III	K35A0795	5991	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.		Applicant(s)
		09/920,583		KAPNER ET AL.
Office Action Summ	nary	Examiner		Art Unit
		Sumaiya A. Cho	•	2623
The MAILING DATE of this of Period for Reply	communication app	pears on the cove	r sheet with the o	correspondence address
A SHORTENED STATUTORY PE WHICHEVER IS LONGER, FROM - Extensions of time may be available under the after SIX (6) MONTHS from the mailing date o - If NO period for reply is specified above, the m - Failure to reply within the set or extended peri- Any reply received by the Office later than three earned patent term adjustment. See 37 CFR	1 THE MAILING D e provisions of 37 CFR 1.1 of this communication. naximum statutory period od for reply will, by statute ee months after the mailin	ATE OF THIS CC 36(a). In no event, how will apply and will expire a, cause the application t	OMMUNICATION ever, may a reply be tir SIX (6) MONTHS from o become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status				
 1) Responsive to communication 2a) This action is FINAL. 3) Since this application is in conclused in accordance with the 	2b) This ondition for allowa	action is non-fin nce except for for	rmal matters, pro	
Disposition of Claims				
 4) Claim(s) <u>1,3,6-13,15,18-26,2</u> 4a) Of the above claim(s) 5) Claim(s) is/are allowe 6) Claim(s) <u>1,3,6-13,15,18-26,2</u> 7) Claim(s) is/are object 8) Claim(s) are subject to 	is/are withdra ed. <u>28 and 31-38</u> is/ar ed to.	wn from consider e rejected.	ation.	
Application Papers				
9) The specification is objected 10) The drawing(s) filed on Applicant may not request that Replacement drawing sheet(s) 11) The oath or declaration is obj	_ is/are: a) ☐ acc any objection to the including the correc	epted or b) ob drawing(s) be held tion is required if th	in abeyance. Se e drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a) All b) Some * c) No 1. Certified copies of the 2. Certified copies of the 3. Copies of the certified application from the In * See the attached detailed Offi	ne of: priority document priority document copies of the prio nternational Burea	s have been rece s have been rece rity documents ha u (PCT Rule 17.2	eived. eived in Applicati ave been receive (a)).	ion No ed in this National Stage
Attachment(s) 1) X Notice of References Cited (PTO-892) 2) X Notice of Draftsperson's Patent Drawing 3) Information Disclosure Statement(s) (PTO Paper No(s)/Mail Date	D/SB/08)	5) 🗌	Interview Summary Paper No(s)/Mail D Notice of Informal F Other:	ate

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments, see Remarks, filed 5/17/07, with respect to claims 1,3,6-

13,15,18-26,28 and 31-38, have been fully considered and are persuasive. The

Office Action of 2/23/07 has been withdrawn.

(a) Applicant argues "LaRocca clearly does not...subscription matrix" on page 9, 2nd paragraph of the Remarks filed 5/17/07.

Examiner agrees and has therefore brought in Kikinis (US 2003/0009757) to teach this limitation.

(b) Applicant argues "Davis does not disclose...such a subscription matrix" on page 8,

2nd paragraph of the Remarks filed 5/17/07.

Examiner agrees and has therefore brought in Kikinis (US 2003/0009757) to teach this limitation.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

 Claims 1, 3, 6, 8-13, 15, 18-19, and 21-25, are rejected under 35 U.S.C. 103(a) as being unpatentable over Davis (5822123) in view of LaRocca (6314572) and Kikinis (US 2003/0009757).

As for claim 1, Davis discloses a client terminal (Fig. 1) connectable to a video distribution system (col. 9, lines 11-20) and a display device (27 – Fig. 1), the video distribution system provides program guide information to create a program guide that includes program guide entries for subscribed channels and non-subscribed channels, the client terminal comprising:

a video distribution system interface (11 – Fig. 1) to receive the program guide information - col. 9, lines 8-20;

a display interface (23 or 26 – Fig. 1 and 27 – Fig. 1) to display the program guide on the display device - col. 11, lines 9-16, col. 9, lines 14-21;

a user interface (29 – Fig. 1) to receive user input - col. 12, lines 4-10; and a terminal controller (16 – Fig. 1) responsive to a subscription control program for:

a. in response to user input, selecting a program guide entry from the program guide (col. 20, lines 9-11, lines 25-34, lines 49-54);

However, Davis fails to disclose wherein

b. upon selection of a program guide entry that is for a non-subscribed channel

i. recommending at least one bundle of channels for subscription by the user based upon a subscription matrix for the user, the currently selected program guide entry for the non-subscribed channel displayed in the program guide, and available bundles of channels for subscription.

ii. accepting user input to select a bundle of channels for subscription by the user; and iii. transmitting a subscription request for the selected bundle of channels to the video distribution system

In an analogous art, LaRocca discloses:

b. upon selection of a program guide entry that is for a non-subscribed channel (col. 11, lines 25-30, lines 35-39, col. 10, lines 7-11)

i. recommending at least one bundle of channels for subscription by the user based upon a subscription matrix (col. 5, lines 29-41) for the user, the currently selected program guide entry for the non-subscribed channel displayed in the program guide (Upon current selection of a program guide entry for a non-subscribed channel, if it is determined that the user doesn't have a subscription to the selected subscription package or to an underlying service to enable a dependent or contingent service, a subscription screen is displayed describing the subscription offering and allows the user to sign up for the service. By doing so, the system is recommending a bundle of channels to the user. – col. 11, lines 25-50), and available bundles of channels for subscription (The subsystems 142 – Fig. 1 and 144 – Fig. 1 maintain databases of specific customer subscription information (subscription matrix) which is used to facilitate dependent subscriptions - col. 5, lines 29-41. Therefore, if the user

selects M subscriptions out of N services, the subscriber is provided the remaining services for free or at a discounted rate. It tracks the subscriptions of each subscriber and when a certain number is obtained in a category, the remaining services are available for free or for a discounted fee – col. 13, lines 16-28. e.g. User selects children's programming (selected program guide entry). The remaining children's programming services (available bundle of channels for subscription) are made available for free or for a discounted fee. The remaining children's programming services are determined from the specific customer subscription information (subscription matrix). When the subscriber subscribes to dependent subscriptions, the system allows the subscriptions to be bundled into fixed packages containing a plurality of services for the advantage of providing programs to the user for free or at a discounted rate - col. 13, lines 16-27);

ii. accepting user input to select a bundle of channels for subscription by the user (col. 11, lines 35-67, col. 12, lines 58-60, col. 13, lines 30-35); and

iii. transmitting a subscription request for the selected bundle of channels to the video distribution system (The subscription information screen allows user to sign up for service. The subscription information screen may inform the user that service requested is a dependent service, implying that user may sign up for a bundle of channels - col. 11, lines 35-67)

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify Davis' invention to include the above mentioned

limitation, as taught by LaRocca, for the advantage of providing programs for free or at a discounted rate (col. 13, lines 16-24).

However, LaRocca and Davis fail to teach:

The subscription matrix is stored locally at the client terminal;

Wherein the subscription matrix includes channel subscribed to by the client terminal and available channels not subscribed to by the client terminal;

In an analogous art, Kikinis (US 2003/0009757) teaches:

The subscription matrix is stored locally at the client terminal and wherein the subscription matrix includes channel subscribed to by the client terminal and available channels not subscribed to by the client terminal (The user STB stores both the subscribed and unsubscribed channels)– [0019]-[0021], [0016];

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify Davis and LaRocca's invention to include the above mentioned limitation, as taught by Kikinis, for the advantage of differentiating subscribed channel from unsubscribed channels in an EPG.

As for claims 3 and 15, Davis, LaRocca, and Kikinis (US 2003/0009757) disclose wherein the video distribution system after receipt of the subscription request for the selected bundle of channels verifies a user's credit with a billing system to determine whether the user's credit is approved or disapproved for the selected bundle of

channels, the terminal controller or video distribution controller responsive to the subscription control program/further comprising code segments or steps for :

In particular, LaRocca discloses:

a. receiving the approval or disapproval from the video distribution system (col.12, lines 1-14); and

b. if the user's credit is approved,

i. updating the subscription matrix (subscription database) to reflect that the client terminal is now subscribed to the selected bundle of channels (col. 12, lines 9-22); and

ii. authorizing access to the selected bundle of channels (col. 12, lines 21-25).

As for claims 6 and 18, Davis, LaRocca, and Kikinis (US 2003/0009757) disclose wherein the selected bundle of channels is the most cost effective bundle of channels having a subscription cost that is less than the subscription cost of individually subscribing to the non-subscribed channel. In particular, LaRocca discloses wherein the subscriber subscribes to dependent subscriptions, the system allows the subscriptions to be bundled into fixed packages wherein several of the services is provided for free or at a discounted rate - col. 13, lines 16-27.

As for claims 8 and 21, Davis, LaRocca, and Kikinis (US 2003/0009757) disclose wherein the client terminal is coupled to the video distribution system by a link that provides a persistent connection. In particular, Davis discloses that the client terminal receives data from the video distribution system via cablecast which is a persistent connection - cablecast, cable line – col. 9, lines 12-16, lines 20-22.

As for claims 9 and 22, Davis, LaRocca, and Kikinis (US 2003/0009757) disclose the claimed limitations. In particular, LaRocca discloses wherein the menu (500 – Fig. 5) includes a category for each listed channel (502 – Fig. 5) – (This is done to group channels into their respective categories to provide the user the ease of finding a desired channel. col. 10, lines 29-45).

As for claims 10 and 23, Davis, LaRocca, and Kikinis (US 2003/0009757) disclose wherein a channel includes a computer network channel. In particular, Davis discloses wherein 64 – Fig. 6 corresponds to interactive services which require a computer network channel. e.g. home shopping, banking, or telephone use - col. 17, lines 39-44.

As for claims 11 and 24, Davis, LaRocca, and Kikinis (US 2003/0009757) disclose the client terminal comprising selecting only a program of the program guide entry of a non-subscribed channel for subscription in selecting the bundle of channels. In particular, LaRocca discloses wherein the client terminal selects a program of the

program guide entry of a non-subscribed channel for subscription in selecting the bundle of channels. e.g. Referring to col. 12 lines 38-65, a user is presented with a sports bundle. The user may only be interested in men's professional basketball and is provided the option of selecting that particular channel – col. 12, lines 58-67.

As for claims 12 and 25, Davis, LaRocca, and Kikinis (US 2003/0009757) disclose wherein the client terminal wherein the video distribution system is a cable head end. In particular, LaRocca discloses wherein the video distribution system is a cable head end – (This enables a secure bi-directional flow of data between the client terminal and cable headend. col. 4, lines 63-67).

Claim 13 contains the limitations of claim 1 and is analyzed as previously discussed with respect to that claim. Claim 13 additionally calls for the following which Davis discloses:

a computer program (application software) embodied in a computer readable storage medium (SRAM, EEPROM 20 – Fig. 1) for use in a client terminal (Fig. 1) connectable to a video distribution system (col. 9, lines 11-20) and a display device (27 – Fig. 1), the video distribution system provides program guide information to create a program guide that includes program guide entries for subscribed channels and nonsubscribed channels, the computer program comprising code segments (software programming) to perform the method discussed above in claim 1. (The video distribution system provides program schedule information for **all (subscribed and non-**

subscribed) television programs available in the operator's geographical market – col. 9, lines 8-20. The EEPROM is connected to the video distribution system through components 12-16 – Fig. 1, and is connected to the display device through 16, 23, 25A – Fig. 1. col. 9, lines 58-64).

As for claim 19, Davis, LaRocca, and Kikinis (US 2003/0009757) disclose the claimed limitations.

In particular, LaRocca teaches:

a. displaying a promotion display for a bundle of channels – col. 11, lines 25-50

b. in response to user input, selecting the promotion display - col. 11, lines 33-50

c. transmitting a subscription request for the bundle of channels to the video distribution system – (col. 11, lines 35-67).

 Claims 7, 20, 26, and 28, 31-38 is rejected under 35 U.S.C. 103(a) as being unpatentable over Davis in view of LaRocca, Kikinis (US 2003/0009757), and Kikinis (US 2003/0023980).

As for claims 7, 20, and 33, Davis, LaRocca, Kikinis (US 2003/0009757) and Kikinis (US 2003/0023980) disclose wherein client terminal further comprising the step/preference engine/code segments, wherein the preference engine/code segments selects program guide entries for non-subscribed channels for display in the program

guide based upon a user's viewing patterns. In particular, Kikinis (US 2003/0023980) discloses wherein the client terminal recommends packages including programming based on customer's use-tracking program (step/preference engine/ code segments) which tracks customer's attempt to access unavailable programming (non-subscribed channels) – (paragraph [0031] - [0033] in published application and paragraph 3 & 4 (Then in step 402 attempts by the customer...) on page 3 in provisional application) [Doing so, provides recommendations of channels which the user is likely to select based on user's past selections.]

Claim 26 contains the limitations of claim 1 and is analyzed as previously discussed with respect to that claim. Claim 26 additionally calls for the following:

Receiving user input at the client terminal (see Davis col. 20, lines 9-11, lines 25-34, lines 49-54)

Performing processing at the client terminal to recommend at least one bundle of channels (See paragraph 4 of page 1 of the provisional application by Kikinis (US 2003/0023980). "What is clearly needed...based on customer responses, out of the multitude of available packages could then generate suggestions for programming packages designed to appeal to him,..., while avoiding for the customer the inconvenience of having to call into a call center". Referring to page 2, 2nd paragraph, "... the system would offer him a comparison of a small selection...of suitable options". Referring to page 2, 5th paragraph, "In some cases...**and therefore an inquiry into the main database is done**". From this, it is clear that the processing to generate

recommendations is done mainly at the client terminal, unless is certain circumstances when the user moves to another town).

As for claim 28, Davis, LaRocca, Kikinis (US 2003/0009757) and Kikinis (US 2003/0023980) disclose wherein the video distribution system after receipt of the subscription request for the selected bundle of channels verifies a user's credit with a billing system to determine whether the user's credit is approved or disapproved for the selected bundle of channels, the terminal controller or video distribution controller responsive to the subscription control program/further comprising code segments or steps for :

In particular, LaRocca discloses:

a. receiving the approval or disapproval from the video distribution system (col. 12, lines 1-14); and

b. if the user's credit is approved,

i. updating the subscription matrix (subscription database) to reflect that the client terminal is now subscribed to the selected bundle of channels (col. 12, lines 9-22); and

ii. authorizing access to the selected bundle of channels (col. 12, lines 21-25).

As for claim 31, Davis, LaRocca, Kikinis (US 2003/0009757) and Kikinis (US

2003/0023980) disclose wherein the selected bundle of channels is the most cost effective bundle of channels having a subscription cost that is less than the subscription cost of individually subscribing to the non-subscribed channel. In particular, LaRocca discloses wherein the subscriber subscribes to dependent subscriptions, the system allows the subscriptions to be bundled into fixed packages wherein several of the services is provided for free or at a discounted rate - col. 13, lines 16-27.

As for claims 32. Davis, LaRocca, Kikinis (US 2003/0009757) and Kikinis (US 2003/0023980) disclose the claimed limitations. In particular, LaRocca teaches:

a. displaying a promotion for a bundle of channels (Fig. 4; col. 9, lines 30-55).

b. in response to user input, selecting the promotion display (col. 9, lines 40-55); and

c. transmitting a subscription request for the bundle of channels to the video distribution system (col. 9, lines 55-65).

As for claim 34, Davis, LaRocca, Kikinis (US 2003/0009757) and Kikinis (US 2003/0023980) disclose wherein the client terminal is coupled to the video distribution system by a link that provides a persistent connection. In particular, Davis discloses that the client terminal receives data from the video distribution system via cablecast which is a persistent connection - cablecast, cable line – col. 9, lines 12-16, lines 20-22.

As for claim 35, Davis, LaRocca, Kikinis (US 2003/0009757) and Kikinis (US 2003/0023980) disclose the claimed limitations. In particular, LaRocca discloses wherein the menu (500 – Fig. 5) includes a category for each listed channel (502 – Fig. 5) – (This is done to group channels into their respective categories to provide the user the ease of finding a desired channel. col. 10, lines 29-45).

As for claim 36, Davis, LaRocca, Kikinis (US 2003/0009757) and Kikinis (US 2003/0023980) disclose wherein a channel includes a computer network channel. In particular, Davis discloses wherein 64 – Fig. 6 corresponds to interactive services which require a computer network channel. e.g. home shopping, banking, or telephone use - col. 17, lines 39-44.

As for claim 37, Davis, LaRocca, Kikinis (US 2003/0009757) and Kikinis (US 2003/0023980) disclose the client terminal comprising selecting only a program of the program guide entry of a non-subscribed channel for subscription in selecting the bundle of channels. In particular, LaRocca discloses wherein the client terminal selects a program of the program guide entry of a non-subscribed channel for subscription in selecting in selecting the bundle of channels. e.g. Referring to col. 12 lines 38-65, a user is presented with a sports bundle. The user may only be interested in men's professional basketball and is provided the option of selecting that particular channel – col. 12, lines 58-67.

As for claim 38, Davis, LaRocca, Kikinis (US 2003/0009757) and Kikinis (US 2003/0023980) disclose wherein the video distribution system is a cable head end. In particular, LaRocca discloses wherein the video distribution system is a cable head end – (This enables a secure bi-directional flow of data between the client terminal and cable headend. col. 4, lines 63-67).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sumaiya A. Chowdhury whose telephone number is (571) 272-8567. The examiner can normally be reached on Mon-Fri, 9-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Miller can be reached on (571) 272-7353. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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ANDREW Y. KOENIG

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PRIMARY PATENT EXAMINER